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CLAIMS

I claim:

1. A method of increasing absorption of a proton pump inhibiting agent into blood serum of a subject, comprising:

providing a solid pharmaceutical composition for administration to the subject, the composition comprising the proton pump inhibiting agent and a buffering agent; and

administering the pharmaceutical composition to the subject's stomach whereby the composition contacts gastric fluid of the stomach and increases the absorption of the proton pump inhibiting agent into the blood serum in an amount greater than the absorption of the proton pump inhibiting agent in the absence of the buffering agent;

wherein the buffering agent is in an amount sufficient to increase gastric fluid pH of the stomach to a pH that inhibits acid degradation of the proton pump inhibiting agent in the gastric fluid so as to provide a measurable serum concentration upon pharmacokinetic testing.

2. The method of claim 1, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 $\mu\text{g/ml}$ within about 15 minutes after ingestion of the composition.

3. The method of claim 1, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 $\mu\text{g/ml}$ from about 15 minutes to about 1 hour after ingestion of the composition.

4. The method of claim 1, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 $\mu\text{g/ml}$ from about 15 minutes to about 1.5 hours after ingestion of the composition.

- 5 5. The method of claim 1, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1 µg/ml within about 15 minutes after ingestion of the composition.
6. The method of claim 1, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about
10 0.1 µg/ml from about 15 minutes to about 1.5 hours after ingestion of the composition.
7. The method of claim 1, wherein the composition is administered via a route selected from the group consisting of oral, nasogastric, and stomach tube.
8. The method of claim 1, wherein the pharmaceutical composition is in a form selected from the group consisting of a tablet, capsule, powder, suspension tablet, effervescent
15 tablet or capsule, granules, and a liquid created by mixing any of the foregoing with an aqueous medium.
9. The method of claim 1, wherein the proton pump inhibiting agent is enteric coated.
10. The method of claim 1, wherein the amount of the proton pump inhibiting agent
20 absorbed into the blood serum is therapeutically effective in treating an acid related gastrointestinal condition selected from the group consisting of duodenal ulcer disease, gastric ulcer disease, gastroesophageal reflux disease, erosive esophagitis, poorly responsive symptomatic gastroesophageal reflux disease, pathological gastrointestinal hypersecretory disease, Zollinger Ellison Syndrome, and acid dyspepsia.
- 25 11. The method of claim 1, wherein the proton pump inhibiting agent is selected from the group consisting of omeprazole, lansoprazole, rabeprazole, esomeprazole, pantoprazole, pariprazole, and leminoprazole, or an enantiomer, isomer, derivative, free base, or salt thereof.

- 5 12. The method of claim 1, wherein the amount of the proton pump inhibiting agent is
about 5 mg to about 300 mg.
13. The method of claim 1, wherein the amount of the proton pump inhibiting agent is
about 10 mg to about 100 mg.
14. The method of claim 1, wherein the amount of the proton pump inhibiting agent is
10 about 15 mg.
15. The method of claim 1, wherein the amount of the proton pump inhibiting agent is
about 20 mg.
-
16. The method of claim 1, wherein the amount of the proton pump inhibiting agent is
about 40 mg.
- 15 17. The method of claim 1, wherein the amount of the buffering agent is about 0.1
mEq to about 2.5 mEq per mg of proton pump inhibiting agent.
18. The method of claim 1, wherein the amount of the buffering agent is about 10
mEq to about 70 mEq.
- 19 The method of claim 1, wherein the amount of the buffering agent is at least 10
20 mEq.
20. The method of claim 1, wherein the amount of the buffering agent is about 20
mEq to about 40 mEq.
21. The method of claim 1, wherein the buffering agent comprises a combination of
calcium carbonate and sodium bicarbonate.
- 25 22. The method of claim 1, wherein the buffering agent comprises a bicarbonate salt
of a Group IA metal.

5 23. The method of claim 1, wherein the buffering agent comprises at least one of magnesium hydroxide, magnesium lactate, magnesium gluconate, magnesium oxide, magnesium carbonate, or magnesium silicate.

 24. The method of claim 1, wherein the buffering agent comprises at least one of calcium acetate, calcium glycerophosphate, calcium chloride, calcium hydroxide, calcium
10 lactate, calcium carbonate, calcium bicarbonate, calcium gluconate, or other calcium salts.

 25. The method of claim 1, wherein the buffering agent comprises sodium bicarbonate.

 26. The method of claim 25, wherein the sodium bicarbonate is in an amount from about 250 mg to about 4000 mg.

15 27. The method of claim 25, wherein the sodium bicarbonate is in an amount from about 1000 mg to about 1680 mg

 28. The method of claim 25, wherein the sodium bicarbonate is in an amount of at least about 800 mg.

 29. The method of claim 1, wherein the buffering agent comprises calcium carbonate.

20 30. The method of claim 29, wherein the calcium carbonate is in an amount from about 250 mg to about 4000 mg.

 31. The method of claim 29, wherein the calcium carbonate is in an amount from about 500 mg to about 1000 mg.

5 32. The method of claim 29, wherein the calcium carbonate is in an amount of at least about 800 mg.

 33. The method of claim 1, wherein the composition is in a dosage form selected from the group consisting of a tablet, powder, suspension tablet, chewable tablet, capsule, effervescent powder, effervescent tablet, pellet, and granule.

10 34. The method of claim 1, wherein the composition further comprises a disintegrant, flow aid, lubricant, adjuvant, excipient, colorant, diluent, moistening agent, preservative, or a pharmaceutically compatible carrier.

 35. The method of claim 1, wherein the composition further comprises a flavoring agent comprising aspartame, chocolate, root beer, peppermint, spearmint, or watermelon, and
15 combinations of any of the foregoing.

 36. The method of claim 1, wherein the composition is administered once or twice a day.

5 37. A method of treating an acid related gastrointestinal disorder in a subject in need thereof, comprising:

 orally administering to the subject a solid pharmaceutical composition comprising a proton pump inhibiting agent and a buffering agent;

 wherein the buffering agent is in an amount sufficient to increase stomach content pH to
10 a pH that inhibits acid degradation of the proton pump inhibiting agent in the stomach and to allow absorption of the proton pump inhibiting agent into blood serum of the subject in an amount greater than the absorption of the proton pump inhibiting agent in the absence of the buffering agent; and wherein the amount of proton pump inhibiting agent absorbed into the blood serum is therapeutically effective in treating the disorder.

15 38. The method of claim 37, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 µg/ml within about 15 minutes after administration of the composition.

 39. The method of claim 37, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about
20 0.15 µg/ml from about 15 minutes to about 1 hour after administration of the composition.

 40. The method of claim 37, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 µg/ml from about 15 minutes to about 1.5 hours after administration of the composition.

 41. The method of claim 37, wherein the composition is administered in an amount to
25 achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1 µg/ml within about 15 minutes after administration of the composition.

5 42. The method of claim 37, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1 µg/ml from about 15 minutes to about 1 hour after administration of the composition.

 43. The method of claim 37, wherein the subject is fasting.

 44. The method of claim 37, wherein the pharmaceutical composition is in a form
10 selected from the group consisting of a tablet, capsule, powder, suspension tablet, effervescent tablet or capsule, granules, and a liquid created by mixing any of the foregoing with an aqueous medium.

 45. The method of claim 37, wherein the proton pump inhibiting agent is enteric coated.

15 46. The method of claim 37, wherein the composition is administered via a route selected from the group consisting of oral, nasogastric, and stomach tube.

 47. The method of claim 37, wherein the proton pump inhibiting agent is selected from the group consisting of omeprazole, lansoprazole, rabeprazole, esomeprazole, pantoprazole, pariprazole, and leminoprazole, or an enantiomer, isomer, derivative, free base, or salt thereof.

20 48. The method of claim 37, wherein the amount of the proton pump inhibiting agent is in an amount of about 5 mg to about 300 mg.

 49. The method of claim 37, wherein the amount of the proton pump inhibiting agent is about 10 mg to about 100 mg.

 50. The method of claim 37, wherein the amount of the proton pump inhibiting agent
25 is about 15 mg.

 51. The method of claim 37, wherein the amount of the proton pump inhibiting agent is about 20 mg.

5 52. The method of claim 37, wherein the amount of the proton pump inhibiting agent is about 40 mg.

 53. The method of claim 37, wherein the buffering agent is about 0.1 mEq to about 2.5 mEq per mg of proton pump inhibiting agent.

 54. The method of claim 37, wherein the amount of the buffering agent is about 10
10 mEq to about 70 mEq.

 55 The method of claim 37, wherein the amount of the buffering agent is at least 10
mEq.

 56. The method of claim 37, wherein the amount of the buffering agent is about 20
mEq to about 40 mEq.

15 57. The method of claim 37, wherein the buffering agent comprises a combination of calcium carbonate and sodium bicarbonate.

 58. The method of claim 37, wherein the buffering agent comprises a bicarbonate salt of a Group IA metal.

 59. The method of claim 37, wherein the buffering agent comprises at least one of
20 magnesium hydroxide, magnesium lactate, magnesium gluconate, magnesium oxide, magnesium carbonate, or magnesium silicate.

 60. The method of claim 37, wherein the buffering agent comprises at least one of calcium acetate, calcium glycerophosphate, calcium chloride, calcium hydroxide, calcium lactate, calcium carbonate, calcium bicarbonate, calcium gluconate, or other calcium salts.

25 61. The method of claim 37, wherein the buffering agent comprises sodium bicarbonate.

- 5 62. The method of claim 61, wherein the sodium bicarbonate is in an amount from
about 250 mg to about 4000 mg.
63. The method of claim 61, wherein the sodium bicarbonate is in an amount from
about 1000 mg to about 1680 mg
64. The method of claim 61, wherein the sodium bicarbonate is in an amount of at
10 least about 800 mg.
65. The method of claim 37, wherein the buffering agent comprises calcium
carbonate.
66. The method of claim 65, wherein the calcium carbonate is in an amount from
about 250 mg to about 4000 mg.
- 15 67. The method of claim 65, wherein the calcium carbonate is in an amount from
about 500 mg to about 1000 mg.
68. The method of claim 65, wherein the calcium carbonate is in an amount of at least
about 800 mg.
69. The method of claim 37, wherein the composition is in a dosage form selected
20 from the group consisting of a tablet, powder, suspension tablet, chewable tablet, capsule,
effervescent powder, effervescent tablet, pellet, and granule.
70. The method of claim 37, wherein the composition further comprises a
disintegrant, flow aid, lubricant, adjuvant, excipient, colorant, diluent, moistening agent,
preservative, or a pharmaceutically compatible carrier.

5 71. The method of claim 37, wherein the subject is an adult human.

 72. The method of claim 37, wherein the disorder is selected from the group
consisting of duodenal ulcer disease, gastric ulcer disease, gastroesophageal reflux disease,
erosive esophagitis, poorly responsive symptomatic gastroesophageal reflux disease,
pathological gastrointestinal hypersecretory disease, Zollinger Ellison Syndrome, and acid
10 dyspepsia.

 73. The method of claim 37, wherein the composition further comprising a flavoring
agent comprising aspartame, chocolate, root beer, peppermint, spearmint, or watermelon, and
combinations of any of the foregoing.

 74. The method of claim 37, wherein the composition is administered once or twice a
15 day.

5 75. A method of treating an acid related gastrointestinal disorder in a subject in need thereof, comprising:

 orally administering to the subject a pharmaceutical composition in an oral dosage form for immediate release into an absorption pool having a highly acidic pH, the composition comprising a proton pump inhibiting agent and a buffering agent;

10 wherein the buffering agent is in an amount sufficient to increase the pH of the absorption pool of the subject to a pH that inhibits acid degradation of the proton pump inhibiting agent and to allow absorption of the proton pump inhibiting agent from the absorption pool into blood serum of the subject in an amount greater than the absorption of the proton pump inhibiting agent in the absence of the buffering agent; and

15 wherein the proton pump inhibiting agent is in an amount sufficient to achieve a measurable serum concentration in the blood serum of the subject after oral administration to the subject.

 76. The method of claim 75, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about
20 0.15 µg/ml within about 15 minutes after administration of the composition.

 77. The method of claim 75, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 µg/ml from about 15 minutes to about 1 hour after administration of the composition.

 78. The method of claim 75, wherein the composition is administered in an amount to
25 achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 µg/ml from about 5 minutes to about 1.5 hours after administration of the composition.

5 79. The method of claim 75, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1 µg/ml within about 15 minutes after administration of the composition.

 80. The method of claim 75, wherein the composition is administered in an amount to achieve a measurable serum concentration of the proton pump inhibiting agent greater than about 10 0.1 µg/ml from about 15 minutes to about 1.5 hours after administration of the composition.

 81. The method of claim 75, wherein the subject is fasting.

 82. The method of claim 75, wherein the pharmaceutical composition is in a form selected from the group consisting of a tablet, capsule, powder, suspension tablet, effervescent tablet or capsule, granules, and a liquid created by mixing any of the foregoing with an aqueous 15 medium.

 83. The method of claim 75, wherein the proton pump inhibiting agent is enteric coated.

 84. The method of claim 75, wherein the composition is administered via a route selected from the group consisting of oral, nasogastric, and stomach tube.

20 85. The method of claim 75, wherein the proton pump inhibiting agent is selected from the group consisting of omeprazole, lansoprazole, rabeprazole, esomeprazole, pantoprazole, pariprazole, and leminoprazole, or an enantiomer, isomer, derivative, free base, or salt thereof.

 86. The method of claim 75, wherein the amount of the proton pump inhibiting agent is in an amount of about 5 mg to about 300 mg.

25 87. The method of claim 75, wherein the amount of the proton pump inhibiting agent is about 10 mg to about 100 mg.

5 88. The method of claim 75, wherein the amount of the proton pump inhibiting agent
is about 15 mg.

 89. The method of claim 75, wherein the amount of the proton pump inhibiting agent
is about 20 mg.

 90. The method of claim 75, wherein the amount of the proton pump inhibiting agent
10 is about 40 mg.

 91. The method of claim 75, wherein the buffering agent is about 0.1 mEq to about
2.5 mEq per mg of proton pump inhibiting agent.

 92. The method of claim 75, wherein the amount of the buffering agent is about 10
mEq to about 70 mEq.

15 93 The method of claim 75, wherein the amount of the buffering agent is at least 10
mEq.

 94. The method of claim 75, wherein the amount of the buffering agent is about 20
mEq to about 40 mEq.

 95. The method of claim 75, wherein the buffering agent comprises a combination of
20 calcium carbonate and sodium bicarbonate.

 96. The method of claim 75, wherein the buffering agent comprises a bicarbonate salt
of a Group IA metal.

 97. The method of claim 75, wherein the buffering agent comprises at least one of
magnesium hydroxide, magnesium lactate, magnesium gluconate, magnesium oxide, magnesium
25 carbonate, or magnesium silicate.

5 98. The method of claim 75, wherein the buffering agent comprises at least one of calcium acetate, calcium glycerophosphate, calcium chloride, calcium hydroxide, calcium lactate, calcium carbonate, calcium bicarbonate, calcium gluconate, or other calcium salts.

 99. The method of claim 75, wherein the buffering agent comprises sodium bicarbonate.

10 100. The method of claim 99, wherein the sodium bicarbonate is in an amount from about 250 mg to about 4000 mg.

 101. The method of claim 99, wherein the sodium bicarbonate is in an amount from about 1000 mg to about 1680 mg

15 102. The method of claim 99, wherein the sodium bicarbonate is in an amount of at least about 800 mg.

 103. The method of claim 75, wherein the buffering agent comprises calcium carbonate.

 104. The method of claim 103, wherein the calcium carbonate is in an amount from about 250 mg to about 4000 mg.

20 105. The method of claim 103, wherein the calcium carbonate is in an amount from about 500 mg to about 1000 mg.

 106. The method of claim 103, wherein the calcium carbonate is in an amount of at least about 800 mg.

5 107. The method of claim 75, wherein the composition is in a dosage form selected from the group consisting of a tablet, powder, suspension tablet, chewable tablet, capsule, effervescent powder, effervescent tablet, pellet, and granule.

 108. The method of claim 75, wherein the composition further comprises a disintegrant, flow aid, lubricant, adjuvant, excipient, colorant, diluent, moistening agent,
10 preservative, or a pharmaceutically compatible carrier.

 109. The method of claim 75, wherein the subject is an adult human.

 110. The method of claim 75, wherein the disorder is selected from the group consisting of duodenal ulcer disease, gastric ulcer disease, gastroesophageal reflux disease, erosive esophagitis, poorly responsive symptomatic gastroesophageal reflux disease,
15 pathological gastrointestinal hypersecretory disease, Zollinger Ellison Syndrome, and acid dyspepsia.

 111. The method of claim 75, wherein the composition further comprising a flavoring agent comprising aspartame, chocolate, root beer, peppermint, spearmint, or watermelon, and combinations of any of the foregoing.

20 112. The method of claim 75, wherein the composition is administered once or twice a day.

5 113. A method of making a pharmaceutical composition for oral administration to a subject, providing immediate release of a proton pump inhibiting agent and a buffering agent into an absorption pool having a highly acidic pH, comprising:

 admixing the proton pump inhibiting agent and the buffering agent;

 wherein the buffering agent is in an amount sufficient to increase the pH of the
10 absorption pool of the subject to a pH that inhibits acid degradation of the proton pump inhibiting agent and to allow absorption of the proton pump inhibiting agent from the absorption pool into blood serum of the subject in an amount greater than the absorption of the proton pump inhibiting agent in the absence of the buffering agent; and

 wherein the proton pump inhibiting agent is in an amount sufficient to achieve a
15 measurable serum concentration in the blood serum of the subject after oral administration to the subject.

 114. The method of claim 113, wherein the amount of buffering agent achieves a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 $\mu\text{g/ml}$ within about 15 minutes after administration of the composition.

20 115. The method of claim 113, wherein the amount of buffering agent achieves a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15 $\mu\text{g/ml}$ from about 15 minutes to about 1 hour after administration of the composition.

 116. The method of claim 113, wherein the amount of buffering agent achieves a measurable serum concentration of the proton pump inhibiting agent greater than about 0.15
25 $\mu\text{g/ml}$ from about 15 minutes to about 1.5 hours after administration of the composition.

5 117. The method of claim 113, wherein the amount of buffering agent achieves a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1 µg/ml within about 15 minutes after administration of the composition.

 118. The method of claim 113, wherein the amount of buffering agent achieves a measurable serum concentration of the proton pump inhibiting agent greater than about 0.1
10 µg/ml from about 15 minutes to about 1.5 hours after administration of the composition.

 119. The method of claim 113, wherein the composition is administered via a route
selected from the group consisting of oral, nasogastric, and stomach tube.

 120. The method of claim 113, wherein the pharmaceutical composition is in a form
selected from the group consisting of a tablet, capsule, powder, suspension tablet, effervescent
15 tablet or capsule, granules, and a liquid created by mixing any of the foregoing with an aqueous medium.

 121. The method of claim 113, wherein the proton pump inhibiting agent is enteric coated.

 122. The method of claim 113, wherein the proton pump inhibiting agent is acid
20 sensitive.

 123. The method of claim 113, wherein the proton pump inhibiting agent is selected from the group consisting of omeprazole, lansoprazole, rabeprazole, esomeprazole, pantoprazole, pariprazole, and leminoprazole, or an enantiomer, isomer, derivative, free base, or salt thereof.

 124. The method of claim 113, wherein the amount of the proton pump inhibiting
25 agent is about 5 mg to about 300 mg.

 125. The method of claim 113, wherein the amount of the proton pump inhibiting agent is about 10 mg to about 100 mg.

5 126. The method of claim 113, wherein the amount of the proton pump inhibiting agent is about 15 mg.

 127. The method of claim 113, wherein the amount of the proton pump inhibiting agent is about 20 mg.

 128. The method of claim 113, wherein the amount of the proton pump inhibiting
10 agent is about 40 mg.

 129. The method of claim 113, wherein the amount of the buffering agent is about 0.1 mEq to about 2.5 mEq per mg of proton pump inhibiting agent.

 130. The method of claim 113, wherein the amount of the buffering agent is about 10 mEq to about 70 mEq.

15 131. The method of claim 113, wherein the amount of the buffering agent is at least 10 mEq.

 132. The method of claim 113, wherein the amount of the buffering agent is about 20 mEq to about 40 mEq.

 133. The method of claim 113, wherein the buffering agent comprises a combination
20 of calcium carbonate and sodium bicarbonate.

 134. The method of claim 113, wherein the buffering agent comprises a bicarbonate salt of a Group IA metal.

 135. The method of claim 113, wherein the buffering agent comprises at least one of
magnesium hydroxide, magnesium lactate, magnesium gluconate, magnesium oxide, magnesium
25 carbonate, or magnesium silicate.

5 136. The method of claim 113, wherein the buffering agent comprises at least one of calcium acetate, calcium glycerophosphate, calcium chloride, calcium hydroxide, calcium lactate, calcium carbonate, calcium bicarbonate, calcium gluconate, or other calcium salts.

 137. The method of claim 113, wherein the buffering agent comprises sodium bicarbonate.

10 138. The method of claim 137, wherein the sodium bicarbonate is in an amount from about 250 mg to about 4000 mg.

 139. The method of claim 137, wherein the sodium bicarbonate is in an amount from about 1000 mg to about 1680 mg

 140. The method of claim 137, wherein the sodium bicarbonate is in an amount of at
15 least about 800 mg.

 141. The method of claim 113, wherein the buffering agent comprises calcium carbonate.

 142. The method of claim 141, wherein the calcium carbonate is in an amount from about 250 mg to about 4000 mg.

20 143. The method of claim 141, wherein the calcium carbonate is in an amount from about 500 mg to about 1000 mg.

 144. The method of claim 141, wherein the calcium carbonate is in an amount of at least about 800 mg.

- 5 145. The method of claim 113, wherein the composition is in a dosage form selected from the group consisting of a tablet, powder, suspension tablet, chewable tablet, capsule, effervescent powder, effervescent tablet, pellet, and granule.
146. The method of claim 113, wherein the composition further comprises a disintegrant, flow aid, lubricant, adjuvant, excipient, colorant, diluent, moistening agent,
10 preservative, or a pharmaceutically compatible carrier.
147. The method of claim 113, wherein the subject has an acid related gastrointestinal disorder.
148. The method of claim 147, wherein the disorder is selected from the group consisting of duodenal ulcer disease, gastric ulcer disease, gastroesophageal reflux disease,
15 erosive esophagitis, poorly responsive symptomatic gastroesophageal reflux disease, pathological gastrointestinal hypersecretory disease, Zollinger Ellison Syndrome, and acid dyspepsia.
149. The method of claim 113, wherein the composition further comprising a flavoring agent comprising aspartame, chocolate, root beer, peppermint, spearmint, or watermelon, and
20 combinations of any of the foregoing.
150. The method of claim 113, wherein the composition is administered once or twice a day.